

SEQUENCE LISTING

<110> Universitätsklinikum Freiburg

<120> THE PRV-1 GENE AND USE THEREOF

<130> E980930

<140> PCT/EP00/09594

<141> 2000-09-29

<150> DE 199 47 010.3

<151> 1999-09-30

<160> 10

<170> PADAT Sequenzmodul, Version 1.0

<210> 1

<211> 1600

<212> DNA

<213> homo sapiens

<220>

<223>

<400> 1

aaaagcagaa agagattacc agccacagac gggtcacgag cgcggtatta ctgctggccc	60
tcctgggggtt catcctccca ctgccaggag tgcaggcgct gctctgccag tttgggacag	120
ttcagcatgt gtggaaggtg tccgacctgc cccggcaatg gaccctaag aacaccagct	180
gcgacagcgg cttgggggtgc caggacacgt tgatgctcat tgagagcggg cccaagtga	240
gcctggtgct ctccaagggc tgcacggagg ccaaggacca ggagccccgc gtcactgagc	300
accggatggg ccccggcctc tccctgacct cctacacctt cgtgtgccgc caggaggact	360
tctgcaacaa cctcggttaac tccctccgc tttgggcccc acagccccca gcagaccag	420
gatccttgag gtgccagtc tgcttgtcta tggaaggctg tctggagggg acaacagaag	480
agatctgccc caaggggacc acacactggt atgatggcct cctcaggctc aggggaggag	540
gcatcttctc caatctgaga gtccagggat gcatgcccc a gccagggtgc aacctgctca	600
atgggacaca ggaaattggg cccgtgggta tgactgagaa ctgcaatagg aaagattttc	660
tgacctgtca tcgggggacc accattatga cacacggaaa cttggctcaa gaaccactg	720
attggaccac atcgaatacc gagatgtgcg aggtggggca ggtgtgtcag gagacgctgc	780
tgctcataga tgtaggactc acatcaacct tgggtggggac aaaaggctgc agcactgttg	840

```

gggctcaaaa ttcccagaag accaccatcc actcagcccc tcttgggggtg cttgtggcct      900
cctataccca cttctgctcc tcggacctgt gcaatagtgc cagcagcagc agcgttctgc      960
tgaactccct ccctcctcaa gctgcccctg tcccaggaga cgggcagtgt cctacctgtg     1020
tgcagccccct tggaacctgt tcaagtggct cccccgaat gacctgcccc aggggcgcca     1080
ctcattgtta tgatgggtac attcatctct caggagggtg gctgtccacc aaaatgagca     1140
ttcagggtcg cgtggcccaa ccttcagct tcttgttgaa ccacaccaga caaatcgga      1200
tcttctctgc gcgtgagaag cgtgatgtgc agcctcctgc ctctcagcat gagggaggtg     1260
gggctgaggg cctggagtct ctcaactggg ggggtggggct ggcactggcc ccagcgctgt     1320
gggtggggagt ggtttgcct tctgctaac tctattacc ccacgattct tcaccgctgc     1380
tgaccacca cactcaacct ccctctgacc tcataaccta atggccttgg acaccagatt     1440
ctttccatt ctgtccatga atcatcttcc ccacacacaa tcattcatat ctactcacct     1500
aacagcaaca ctggggagag cctggagcat cgggacttgc cctatgggag aggggacgct     1560
ggaggagtgg ctgcatgtat ctgataatac agaccctgtc      1600

```

<210> 2
 <211> 437
 <212> PRT
 <213> homo sapiens

<400> 2

```

Met Ser Ala Val Leu Leu Leu Ala Leu Leu Gly Phe Ile Leu Pro Leu
  1          5          10          15
Pro Gly Val Gln Ala Leu Leu Cys Gln Phe Gly Thr Val Gln His Val
      20          25          30
Trp Lys Val Ser Asp Leu Pro Arg Gln Trp Thr Pro Lys Asn Thr Ser
      35          40          45
Cys Asp Ser Gly Leu Gly Cys Gln Asp Thr Leu Met Leu Ile Glu Ser
      50          55          60
Gly Pro Gln Val Ser Leu Val Leu Ser Lys Gly Cys Thr Glu Ala Lys
      65          70          75          80
Asp Gln Glu Pro Arg Val Thr Glu His Arg Met Gly Pro Gly Leu Ser
      85          90          95
Leu Ile Ser Tyr Thr Phe Val Cys Arg Gln Glu Asp Phe Cys Asn Asn
      100          105          110
Leu Val Asn Ser Leu Pro Leu Trp Ala Pro Gln Pro Pro Ala Asp Pro
      115          120          125
Gly Ser Leu Arg Cys Pro Val Cys Leu Ser Met Glu Gly Cys Leu Glu
      130          135          140
Gly Thr Thr Glu Glu Ile Cys Pro Lys Gly Thr Thr His Cys Tyr Asp
      145          150          155          160
Gly Leu Leu Arg Leu Arg Gly Gly Gly Ile Phe Ser Asn Leu Arg Val
      165          170          175

```

Gln	Gly	Cys	Met	Pro	Gln	Pro	Gly	Cys	Asn	Leu	Leu	Asn	Gly	Thr	Gln	
			180					185					190			
Glu	Ile	Gly	Pro	Val	Gly	Met	Thr	Glu	Asn	Cys	Asn	Arg	Lys	Asp	Phe	
		195					200					205				
Leu	Thr	Cys	His	Arg	Gly	Thr	Thr	Ile	Met	Thr	His	Gly	Asn	Leu	Ala	
	210					215					220					
Gln	Glu	Pro	Thr	Asp	Trp	Thr	Thr	Ser	Asn	Thr	Glu	Met	Cys	Glu	Val	
225					230					235					240	
Gly	Gln	Val	Cys	Gln	Glu	Thr	Leu	Leu	Leu	Ile	Asp	Val	Gly	Leu	Thr	
				245					250					255		
Ser	Thr	Leu	Val	Gly	Thr	Lys	Gly	Cys	Ser	Thr	Val	Gly	Ala	Gln	Asn	
			260					265					270			
Ser	Gln	Lys	Thr	Thr	Ile	His	Ser	Ala	Pro	Pro	Gly	Val	Leu	Val	Ala	
		275					280					285				
Ser	Tyr	Thr	His	Phe	Cys	Ser	Ser	Asp	Leu	Cys	Asn	Ser	Ala	Ser	Ser	
	290					295					300					
Ser	Ser	Val	Leu	Leu	Asn	Ser	Leu	Pro	Pro	Gln	Ala	Ala	Pro	Val	Pro	
305					310					315					320	
Gly	Asp	Arg	Gln	Cys	Pro	Thr	Cys	Val	Gln	Pro	Leu	Gly	Thr	Cys	Ser	
				325					330					335		
Ser	Gly	Ser	Pro	Arg	Met	Thr	Cys	Pro	Arg	Gly	Ala	Thr	His	Cys	Tyr	
			340					345					350			
Asp	Gly	Tyr	Ile	His	Leu	Ser	Gly	Gly	Gly	Leu	Ser	Thr	Lys	Met	Ser	
		355					360					365				
Ile	Gln	Gly	Cys	Val	Ala	Gln	Pro	Ser	Ser	Phe	Leu	Leu	Asn	His	Thr	
	370					375					380					
Arg	Gln	Ile	Gly	Ile	Phe	Ser	Ala	Arg	Glu	Lys	Arg	Asp	Val	Gln	Pro	
385					390					395					400	
Pro	Ala	Ser	Gln	His	Glu	Gly	Gly	Gly	Ala	Glu	Gly	Leu	Glu	Ser	Leu	
			405						410					415		
Thr	Trp	Gly	Val	Gly	Leu	Ala	Leu	Ala	Pro	Ala	Leu	Trp	Trp	Gly	Val	
			420				425						430			
Val	Cys	Pro	Ser	Cys												
			435													

<210> 3

<211> 24

<212> RNA

<213> Artificial Sequence

<220>

<223> 5'-end of PRV-1-sequence

<400> 3

aaaagcagaa agagattacc agcc

24

<210> 4

<211> 24

<212> RNA

<213> Artificial Sequence

<220>

<223> Antisense-Molecule

<400> 4

ggctggtaat ctctttctgc tttt

24

<210> 5

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> amino acids 34-46 of PRV-1

<400> 5

Lys	Val	Ser	Asp	Leu	Pro	Arg	Gln	Trp	Thr	Pro	Lys	Asn
1				5					10			

<210> 6

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> amino acids 391-405 of PRV-1

<400> 6

Ser	Ala	Arg	Glu	Lys	Arg	Asp	Val	Gln	Pro	Pro	Ala	Ser	Gln	His
1				5					10					15

<210> 7

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> RT-Primer

<400> 7

attaggttat gaggtcagag ggaggtt

27

<210> 8

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> sense-Primer

<400> 8

gcagaaagag attaccagcc acagacgg

28

<210> 9

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense-Primer

<400> 9

gaatcgtggg ggtaatagag ttagcagg

28

<210> 10

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> probe

<400> 10

ttcttggtga accacaccag acaaatcgg

29